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UPDATE OF THE INITIAL INSTALLATION ASSESSMENT
OF ROCK ISLAND ARSENAL, IL

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Rock Island Arsenal
Rock Island, IL 61299-6000
and
U.S. ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
Aberdeen Proving Ground, MD 21010-5401

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SUMMARY

An onsite installation assessment was conducted at Rock Island Arsenal (RIA), Rock Island, IL, on 2 and 3 February 1987 to determine if any environmental/hazardous waste disposal conditions had changed since the Initial Installation Assessment (IIA) and if such changes, coupled with interim changes in environmental regulations or missions, had altered the contaminant migration/hazard situation and would change the previous non-site investigation (SI) recommendation. Data obtained during the onsite assessment were used to update the IIA performed in 1979.

It was concluded that:

1. Available information on contaminant sources and the geohydrology of the installation indicates the potential for contamination of the shallow ground water and subsequent migration;
2. Due to the location of existing monitor wells, contaminants that may potentially migrate from the former liquid disposal pits at the old landfill may not be detected in the ground water;
3. The soils around Bldg. 144 may be contaminated with petroleum, oils, and lubricants (POL) from leaking underground tanks;
4. Stormwater drainage outfalls require National Pollutant Discharge Elimination System (NPDES) permits;
5. Ground water monitor wells at the new filling station (Bldg. 244) have not been tested to determine if the storage tanks are leaking; and
6. Munitions compounds may be present in the old quarry.

Based on these conclusions, the following items were recommended. That U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) should:

1. Not conduct an SI at RIA.

That RIA should:

2. Consider installation of additional monitoring wells at the old landfill, old quarry, and initiation of the ground water monitoring program recommended by the U.S. Army Environmental Hygiene Agency (USAEHA); the analysis program should include all priority pollutants and munitions compounds manufactured at the installation in the past;
3. Ensure that the contractor removes all POL-contaminated soils at Bldg. 144, along with the abandoned tanks and their contents;
4. Continue with plans to submit an NPDES permit application for the stormwater outfalls; and
5. Consider continuous monitoring of the wells at Bldg. 244 with hydrocarbon detectors.

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LIST OF ACRONYMS AND ABBREVIATIONS

A&E	Architect and Engineering
ARRADCOM	U.S. Army Armament Research and Development Command
CE	U.S. Army Corps of Engineers
CSL	Chemical System Laboratory
DARCOM	U.S. Army Materiel Development and Readiness Command [now U.S. Army Materiel Command (AMC)]
DRMO	Defense Reutilization and Marketing Office
EPA	U.S. Environmental Protection Agency
EPIC	Environmental Photographic Interpretation Center
ESE	Environmental Science and Engineering, Inc.
FY	fiscal year
gal	gallon
ha	hectare
IEPA	Illinois Environmental Protection Agency
IIA	Initial Installation Assessment
IWTP	Industrial Wastewater Treatment Plant
L	liter
m	meter
mg/L	milligrams per liter
MOGAS	motor gasoline
NIPDWR	National Interim Primary Drinking Water Regulations
NPDES	National Pollutant Discharge Elimination System
NSDWR	National Secondary Drinking Water Regulations
PCB	polychlorinated biphenyl
POL	petroleum, oils, and lubricants
ppm	parts per million
RIA	Rock Island Arsenal
SI	Site Investigation
USAEHA	U.S. Army Environmental Hygiene Agency
USATHAMA	U.S. Army Toxic and Hazardous Materials Agency
WWII	World War II

1.0 GENERAL

1.1 PURPOSE OF THE EVALUATION

An onsite records search [Initial Installation Assessment (IIA)] was conducted at Rock Island Arsenal (RIA), Rock Island, IL, in 1979 to assess past and current use of toxic and hazardous materials, as well as the potential for these substances to migrate off the installations.

An evaluation of the records search (IIA) report for RIA was conducted in February 1987 to determine if previous non-survey [site investigation (SI)] conditions had changed and if such changes, coupled with interim changes in environmental regulations or mission, had altered the contaminant migration/hazard situation.

All information concerning operations existing at the time of the original assessment was reviewed and incorporated into this report, along with new information made available to the team upon assignment of the update and by the installation at the time of the revisit.

1.2 AUTHORITY

U.S. Army Materiel Development and Readiness Command (DARCOM) Regulation 10-30, Mission and Major Functions of USATHAMA, 13 July 1984.

1.3 INTRODUCTION

1. In reviewing earlier published records search (IIA) reports (1976 to 1981), the USATHAMA Installation Restoration Division determined some installations would require additional evaluations due to changes in environmental laws, changes in mission, and environmental problems discovered after the onsite visit.
2. Subsequent to the IIA in December 1979, USATHAMA has determined a report update would be required for RIA.

3. Rock Island Arsenal was contacted to outline the scope of the evaluation, provide guidelines to RIA personnel, and obtain advance information for review by the evaluation team.
4. Installation personnel were briefed on the evaluation program on 2 February 1987 by Julius W. Hunter from Environmental Science and Engineering, Inc. (ESE), a USATHAMA contractor.
5. Various Government agencies were contacted for documents pertinent to the evaluation effort. Agencies contacted include:
 - a. U.S. Army Environmental Hygiene Agency (USAEHA) (Aberdeen Proving Ground, MD); and
 - b. U.S. Environmental Protection Agency (EPA), Environmental Photographic Interpretation Center (EPIC) (Vint Hill Farms Station, Warrenton, VA).
6. The onsite phase of the evaluation was conducted on 2 and 3 February 1987. The information presented in this report is current, as of the date of the evaluation. The following personnel from ESE, under Contract No. DAAA15-85-D-0017, Delivery Order No. 0007, were assigned to the evaluation team:
 - o Dr. J.D. Bonds, Project Manager;
 - o J.W. Hunter, Team Leader;
 - o Ms. Janet Sherwood, Document Coordinator; and
 - o Ms. Kathleen Civitarese, Librarian.
7. In addition to the records review, several RIA employees were contacted to obtain information on various sites (see App. A). A ground tour of RIA was made, and photographs were taken.
8. The installation update focused primarily on those areas identified as potential problems in the original assessment and environmental studies performed subsequent to the original site visit.

1.4 INSTALLATION HISTORY

Rock Island Arsenal is located on an island in the Mississippi River between Iowa and Illinois (Fig. 1-1). Upon recommendation of the Secretary of War, Rock Island was approved by Congress on 11 July 1962 as a location for a western armory. The 384 hectares (ha) of Rock Island are divided as follows: Rock Island Arsenal, 367 ha; U.S. Army Corps of Engineers (CE), 4 ha; National Cemetery, 11 ha; and the Confederate Cemetery, 1 ha. The 367 ha under the control of RIA are divided into three management land uses: improved land, 80 ha; semi-improved land, 61 ha; and the remaining unimproved land encompasses 226 ha which also includes 68 ha outleased for a golf course.

Missions of the Arsenal have included the manufacture of small arms during the Spanish-American War and again from 1899 to 1917. Between 1918 and 1941, RIA was utilized as a storage and repair facility for ordnance materiel. During this period, RIA specialized in tank and armored vehicle development. During World War II (WWII), the design and manufacture of ordnance materiel increased tremendously. Rock Island Arsenal assembled heavy guns; made heavy gun carriages; manufactured small arms, gun mounts, and recoil mechanisms; and performed tank repair and modification. Since WWII, depot and manufacturing operations have declined, except for limited periods during the Korean and Vietnam Conflicts.

Industrial operations at RIA date back to the Spanish-American War. Early operations conducted at RIA included forging, smithing, tinning, production of gun carriages and powder cases, the manufacture and repair of small arms, operation of harness shops, and loading of ammunition. Later operations included the manufacture of automotive vehicles, demolition bombs and bomb racks, modification of aircraft engines, light tanks, recoil mechanisms, machine guns, rocket launchers, breech mechanisms, and Honest John and Nike Hercules launchers. More recent operations have included production of small arms, artillery components,

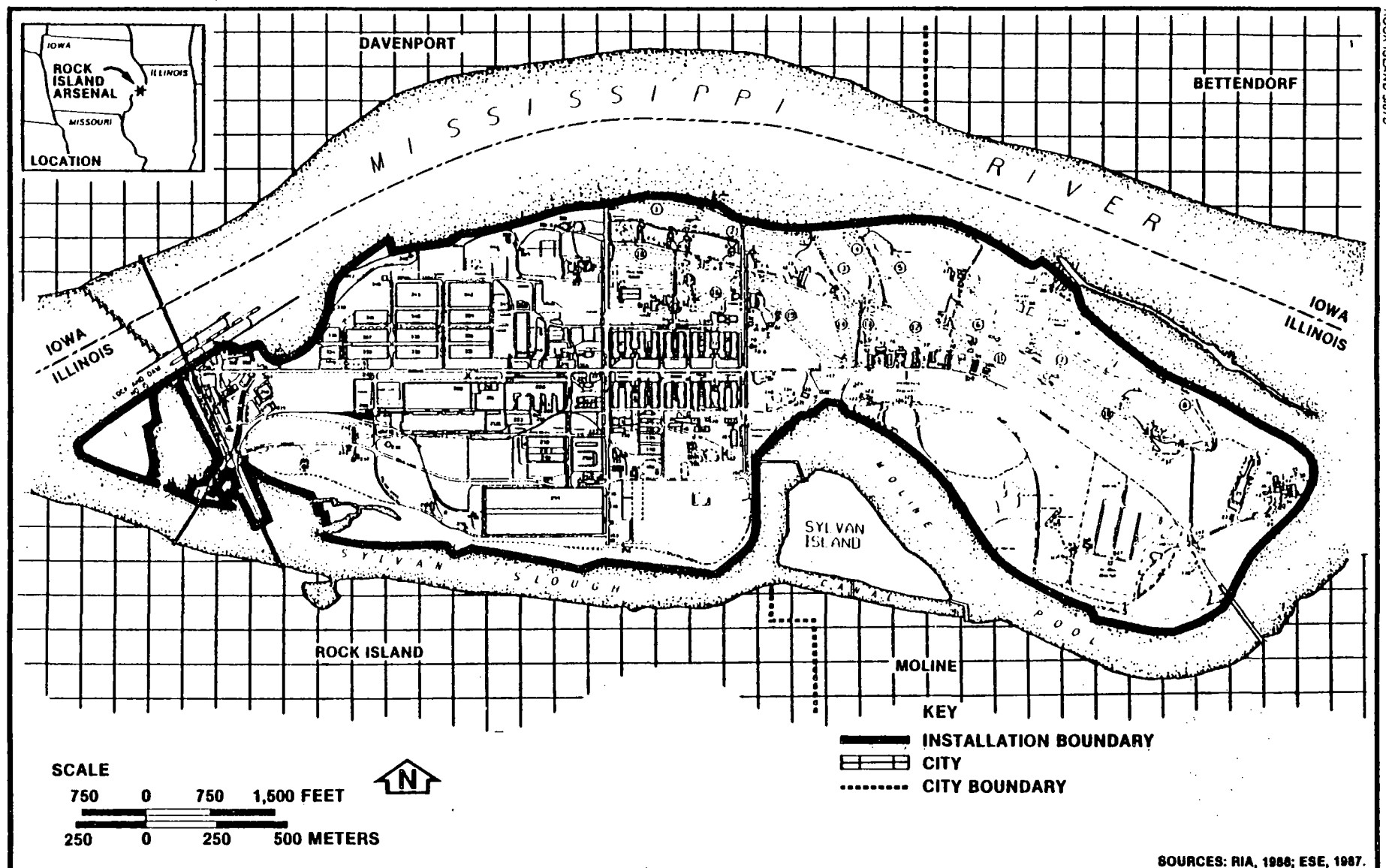


Figure 1-1
LOCATION AND AREA MAP OF ROCK ISLAND ARSENAL

Prepared for:
U.S. Army Toxic and Hazardous
Materials Agency
Aberdeen Proving Ground, Maryland

recoil mechanisms, gun mounts, gun carriages, loaders, grenade launchers, and aircraft weapons subsystems. These operations are geared to prototype assistance, limited production orders, and orders for the production of repair parts with a critical national supply status. Current manufacturing operations include facilities for casting ferrous and nonferrous metals, sheet metal piercing and forming, forging, welding, plating, painting, operation of proof-firing ranges, paint stripping, machining, cleaning, lubricating, and metal surface treatment.

The current mission of RIA is to perform manufacturing of assigned materiel and its required direct support to include engineering and product assurance. Assigned materiel includes aircraft weapons, infantry weapons, air defense weapons, gun mounts, recoil mechanisms and carriages for tanks and artillery, armaments for tanks, special tools, tool sets and common tools, and maintenance equipment. Prototype and advanced engineering models are manufactured in support of U.S. Army Armament Research and Development Command (ARRADCOM). Rock Island Arsenal provides the Armed Forces with manufacturing and support services not readily available from private industry.

The current RIA mission has not changed since the 1979 IIA.

The number of personnel at RIA and the level of activity also remain approximately the same as during the 1979 IIA.

2.0 CONCLUSIONS, RECOMMENDATIONS, AND CORRECTIVE
ACTIONS RESULTING FROM THE 1979 INSTALLATION ASSESSMENT
OF ROCK ISLAND ARSENAL

2.1 CONCLUSIONS (AS STATED IN THE IIA PUBLISHED BY USATHAMA IN 1979)

1. The primary contaminants from the industrial operations are heavy metals; cyanide salts; petroleum, oils, and lubricants (POL); and organic solvents.
2. The most heavily contaminated onpost sites are presumed to be the old landfill south of Bldg. 299, the "XYZ" Area, and the industrial fill area located northwest of Bldg. 299.
3. The most likely routes for offpost migration of contaminants are via surface runoff and shallow underground water flow into the Mississippi River.
4. Both the USAEHA analysis of the wells at RIA and the CE water pollution study of the landfill area indicate that contaminants are not migrating to the initial aquifer below bedrock or to the shallow ground water.
5. There is no provision for the containment of accidental leakage from the drums of Industrial Wastewater Treatment Plant (IWTP) sludge and cyanide salts stored in Bldg. 175.

2.2 RECOMMENDATIONS (AS STATED IN THE IIA PUBLISHED BY USATHAMA IN 1979)

1. That no preliminary survey be conducted at this time.
2. That a berm or similar means be built around the drums of chemical waste stored in Bldg. 175 to contain any accidental spillage or drum leakage.

2.3 CORRECTIVE ACTION TAKEN SINCE THE INITIAL INSTALLATION ASSESSMENT

2.3.1 HAZARDOUS WASTE STORAGE FACILITIES BLDGS. 175 AND 242

The 1979 IIA indicated that Bldg. 175 did not have any means of containing potential spills. This building was used to house drums of filter cake, cyanide salts, and other hazardous waste awaiting disposal

by a contractor. Due to the potential for spills of hazardous materials in this area and the potential for migrating into the outside environment, the IIA recommended the addition of some means to contain spills. A curb of angle iron was installed and floor cracks were sealed with epoxy resin as recommended. Subsequently, in 1982, the hazardous waste was moved to Bldg. 242, the current storage facility, and Bldg. 175 was demolished. A recent contamination survey (USAEHA, 1985a) also recommended that the floors of Bldg. 242 be sealed. Since the IIA and the 1985 USAEHA survey, the floor of Bldg. 242 has been sealed with an epoxy sealer to prevent any spilled materials from leaching through or adhering to the concrete floor.

2.3.2 OLD LANDFILL

A landfill located south of Bldg. 299 and immediately adjacent to Sylvan Slough (Fig. 2-1) was used for the disposal of industrial waste from 1920 until the mid-1960s. The wastes disposed of in the landfill included construction rubble and debris, oily sludges, waste oil, anti-freeze, water coolant, waste cyanide salts, sludges from the plating shops, lead and zinc chromates, and paint residues. The liquids were poured into pits (Fig. 2-1) and either burned or allowed to percolate into the ground. The entire landfill contents were burned on an irregular basis. Five monitor wells were installed by an architect and engineering (A&E) firm on the southern perimeter of the landfill in 1978 (designated old monitor wells 1-5 on Fig. 2-1). Two additional monitor wells were installed north of the old landfill in 1986.

The materials removed from the wells during drilling were analyzed by an extraction procedure recommended by the Illinois Environmental Protection Agency (IEPA). The results indicated that the soil samples contained oil (see Table 2-1) and, in one case, an excessive amount of iron. However, the water samples did not have any parameters which exceeded the National Interim Primary Drinking Water Regulations (NIPDWR) and National Secondary Drinking Water Regulations (NSDWR) standards (see Table 2-2). The study also determined that: (1) the water table was 3 to 4 meters

Non-responsive

Table 2-1. Results of Water Quality Analysis of the Soluble Portion
Obtained From a Leachate Test of Soils From Three Test Holes
at the Old Sanitary Landfill on Rock Island Arsenal

Parameter	Location and Results (all units in ppm except pH)			IEPA Water Quality Standards
	Test Hole	Test Hole	Test Hole	
	No. 1 (9' to 10'6")	No. 2 (15' to 16'6")	No. 3 (20' to 21'6")	
pH	7.01	8.62	7.97	6.5 - 9.0
oil	250	140	430	(15)†
phenol	<0.01	0.02	<0.01	0.1
mercury	<0.005*	<0.005*	<0.005*	0.0005
zinc	0.56	0.40	0.90	1.0
cyanide	<0.05	<0.05	<0.05	0.025
chromium (Cr+3)	<0.05	<0.05	<0.05	1.0
chromium (Cr+6)	<0.05	<0.05	<0.05	0.05
nickel	0.5	0.3	0.1	1.0
copper	<0.01	0.01	<0.01	0.02
iron	0.3	0.3	4.5	1.0
cadmium	0.04	0.002	0.01	0.05

*Due to IEPA procedure of diluting samples by a factor of 10, these data cannot be measured to the level of significance required.

†IEPA effluent standard.

Note: ppm = parts per million

Source: IIA, 1979.

09/02/87

Table 2-2. Results of Water Quality Analysis of Three Monitor Wells at the Old Sanitary Landfill on Rock Island Arsenal

Parameter	Location and Results (all units in mg/L except pH)			IEPA Water Quality Standards
	Test Well	Test Well	Test Well	
	No. 1	No. 2	No. 3	
pH	7.17	7.42	6.83	6.5 - 9.0
oil	3.7	2.8	3.5	(15)*
mercury	<0.005	<0.005	<0.005	0.0005
zinc	0.012	0.002	0.005	1.0
cyanide	<0.001	<0.001	<0.001	0.025
chromium (Cr+3)	<0.005	<0.005	<0.005	1.0
chromium (Cr+6)	<0.005	<0.005	<0.005	0.05
nickel	<0.01	<0.01	<0.01	1.0
copper	0.015	0.007	0.001	0.02
iron	0.21	0.38	0.35	1.0
cadmium	<0.001	<0.001	<0.001	0.05

*IEPA effluent standard.

Note: mg/L = milligrams per liter.

Source: IIA, 1979.

(m) below ground surface; (2) the shallow ground water moved in a southerly direction, and (3) the water table fluctuated with the rise and fall of the river. Based on these results and the assumption that the landfill had been heavily leached since closure, the report indicated the probability of significant movement of any additional oil or heavy metals from the landfill to the ground water would be considered extremely small. Four of the five wells were still in-place and were located during the recent onsite visit.

A contamination study (USAEHA, 1985b) conducted at the RIA landfill indicated that additional monitor wells and monitoring would be required because the original monitor wells are all located within the landfill boundaries and no background wells are available. The report also recommended that RIA collect and analyze ground water samples for arsenic; cadmium; barium; chloride; hexavalent chromium; copper; cyanide; iron; lead; manganese; mercury; nickel; selenium; silver; sulfate; zinc; total dissolved solids; specific conductance; total organic carbon; total organic halogen; oil; endrin; lindane; methoxychlor; toxaphene, 2,4-dichlorophenoxyacetic acid; 2,4,5-trichlorophenoxyacetic acid; pesticide scan; polychlorinated biphenyl (PCB); volatile organic scan; base neutral extractables; and acid extractables.

As a result of the USAEHA report, two new monitor wells were installed by CE on RIA in May 1986. These wells, located upgradient of the landfill, are also shown on Fig. 2-1. The monitor wells have not been sampled since they were installed. Well logs for these two wells (3A and 4A) are presented in App. B.

A clay cover has also been placed by CE over a limited area of the old landfill, as shown in Fig. 2-1. The actual thickness and permeability of the clay cover is not known. This landfill cover was added to adequately cover landfill cells opened by erosion and settling. The addition of the cover also prevents the infiltration of rainwater which would increase the potential of leaching contaminants into the ground water.

3.0 ENVIRONMENTAL PROBLEMS IDENTIFIED AND
OTHER CHANGES SUBSEQUENT TO THE 1979
INSTALLATION ASSESSMENT OF ROCK ISLAND ARSENAL

3.1 ENVIRONMENTAL PROBLEMS

No significant new environmental problems with respect to the past or current generation, storage, or disposal of hazardous materials have been identified at RIA as a result of this study.

3.2 OTHER CHANGES

3.2.1 PESTICIDES

At the time of the IIA, all pesticide activities were handled by the RIA Entomology Department. The installation had constructed a new pesticide facility (Bldg. 139) and was in conformance with both Army and Federal guidelines for the handling, storage, and usage of pesticides.

Pesticides currently used at RIA are stored in Bldg. 139. The pesticide program is currently administered through the Roads and Grounds section. All personnel involved with the application of pesticides at RIA between 1975 and January 1987 were Army trained and certified.

Beginning on 25 January 1987, the mixing and application of pesticides was transferred to an outside contractor. The installation continues to store the pesticides to be used by the contractor on the Arsenal in Bldg. 139. The contractor also will continue to mix batches of pesticides at Bldg. 139. This building is in compliance with Federal and Army guidelines for pesticide facilities.

3.2.2 POLYCHLORINATED BIPHENYLS (PCBs)

At the time of the IIA, RIA had not performed any surveys of electrical equipment (transformers, capacitors, etc.) on the installation to determine if PCBs were present as contaminants in the dielectric fluids.

Subsequent to the IIA, the installation identified and labeled all PCB-containing items on the installation.

Since completion of the 1979 IIA, a list of PCB-containing transformers has been prepared by RIA and is presented in App. B. As PCB transformers are removed from use, they are transferred to the Hazardous Waste Storage facility in Bldg. 242. The transformers are disposed of offpost through the Defense Reutilization and Marketing Office (DRMO). The out-of-service transformer storage area complies with Federal regulations.

3.2.3 PETROLEUM, OILS, AND LUBRICANTS (POLs)

Petroleum, oils, and lubricants (POLs) are stored in a variety of areas on RIA. Most of the RIA shops use solvents, lubricating oils, or cutting oils as part of the manufacturing process or in maintenance activities. The heavy equipment and vehicle maintenance shops store POLs for use in vehicle maintenance. Waste oil is collected at the point of generation and taken to a series of concrete underground storage tanks at Bldg. 216. These rectangular tanks have a capacity of approximately 15,000 gallons (gal) each. The tanks were installed in 1917. The tanks have not been leak checked; however, upon filling, the quantity of waste oil in the tank is estimated using a calibrated gaging stick. The tank cover is always secured with a lock. When the tank is near capacity, DRMO is notified to begin sale of the waste oil. Once the oil has been removed by the contractor, the actual amount sold is compared with the original estimate. The RIA Environmental Coordinator reports that no significant discrepancies have occurred. These tanks are scheduled to be removed during fiscal year (FY) 88. The installation will examine the soils around the tank at the time of removal to determine if any leaks have occurred.

Bulk fuels are stored in several locations on RIA. The underground storage tanks are discussed in subsequent paragraphs. Six 10,000-gal aboveground steel tanks, located in the basement of Bldg. 155, were used for approximately 45 years to store both diesel fuel and kerosene. Four of the tanks were abandoned (in the early 1980s) when it was discovered that they were leaking. The four abandoned tanks and the two in-use tanks were removed then and the building was razed in mid-1986.

Appendix C contains the IEPA notification form for the underground storage tanks located on RIA. The installation reported 27 underground tanks to IEPA. The locations of these tanks are shown in Fig. 3-1. The installation has instituted a program to remove some of the tanks and replace them with aboveground tanks, where necessary.

Four new fiberglass single-wall tanks were recently installed at Bldg. 244. Building 244 is a new vehicle filling station and had not yet been placed into service at the time of the onsite visit. The new tanks are above ground level but are earth mounded. Two monitor wells (see App. B for the drilling logs for Wells 1A and 2A) were installed in September 1986 near the tanks. These wells will be sampled at a future date to assure RIA that the tanks are not leaking.

During late 1986, RIA selected a contractor to remove four underground tanks located at Bldg. 144. Upon excavation, it was discovered that 10 tanks [approximately 45,000-liter (L) capacity for each tank] were actually at that location and that several of the tanks still contained POL [motor gasoline (MOGAS)]. The excavation contractor removed several of the tanks, including the POL, until the limit of the contract was reached. Rock Island Arsenal is proceeding with modifying the contract to extend the period of performance and increase the funding available for removing the POL remaining in the tanks, along with the tanks. The excavation was still open during the recent onsite visit, and an oil sheen was observed on the water contained in the hole. The tanks formerly had been used to store solvents and fuels for use in the

3-4

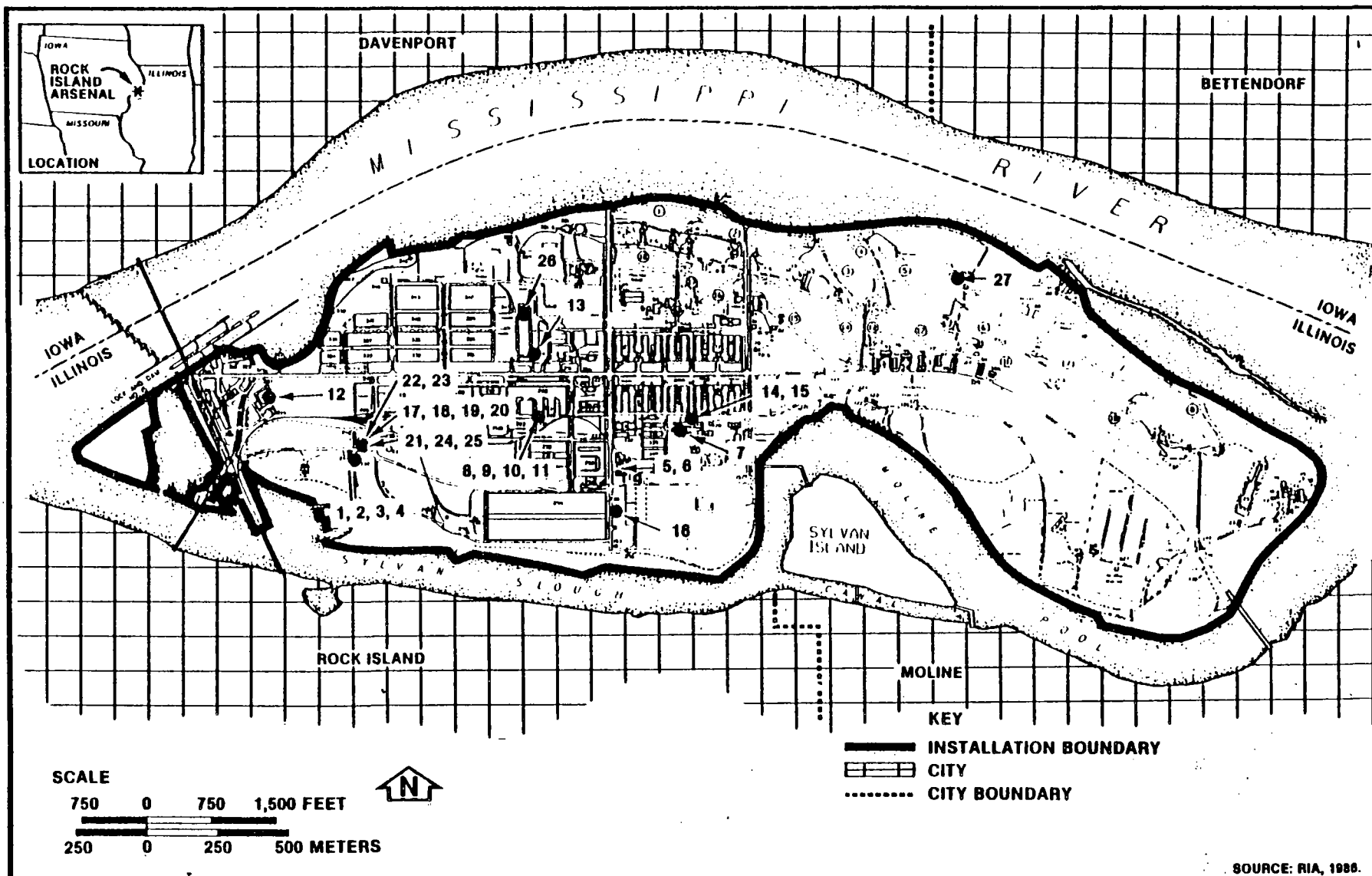


Figure 3-1
LOCATIONS OF ROCK ISLAND ARSENAL
UNDERGROUND STORAGE TANKS -- MAY 8, 1986

Prepared for:
U.S. Army Toxic and Hazardous
Materials Agency
Aberdeen Proving Ground, Maryland

neighboring shops: A filling station (Bldg. 143) formerly was located at this area, but was demolished prior to the 1979 IIA.

Two underground storage tanks are located at Bldg. 158, the equipment filling station. The tanks are scheduled for removal during FY88. Any fuels removed from these tanks will be taken to the filling station at Bldg. 244.

3.2.4 OLD QUARRY

An abandoned rock quarry is located on the eastern end of RIA, as shown in Fig 3-2. The quarry was used, prior to 1862, to mine rock for use in construction activities in the surrounding communities. The quarry has been used for disposal of all types of materials during the existence of RIA. It is reported, but not confirmed, that munitions, cannon, and scrap metal may have been disposed of in the quarry. The depth of the quarry is unknown. The quarry is currently being backfilled with clean fill material and dirt. No adverse environmental effects were noted during the onsite visit.

3.2.5 STORMWATER DISCHARGE

The IEPA has requested that RIA file a National Pollutant Discharge Elimination System (NPDES) Permit application for the stormwater discharge system. Storm water is currently collected and discharged into the Mississippi River and Sylvan Slough at various points on the island. The RIA Environmental Coordinator reports that the application will be filed during FY87.

3.2.6 COAL PILE

Prior to 1984, and during the time when the 1979 IIA was conducted, bulk coal for use in the central heating plant was stored outside at the location shown in Fig. 3-3. This location did not have stormwater runoff controls or curbing.

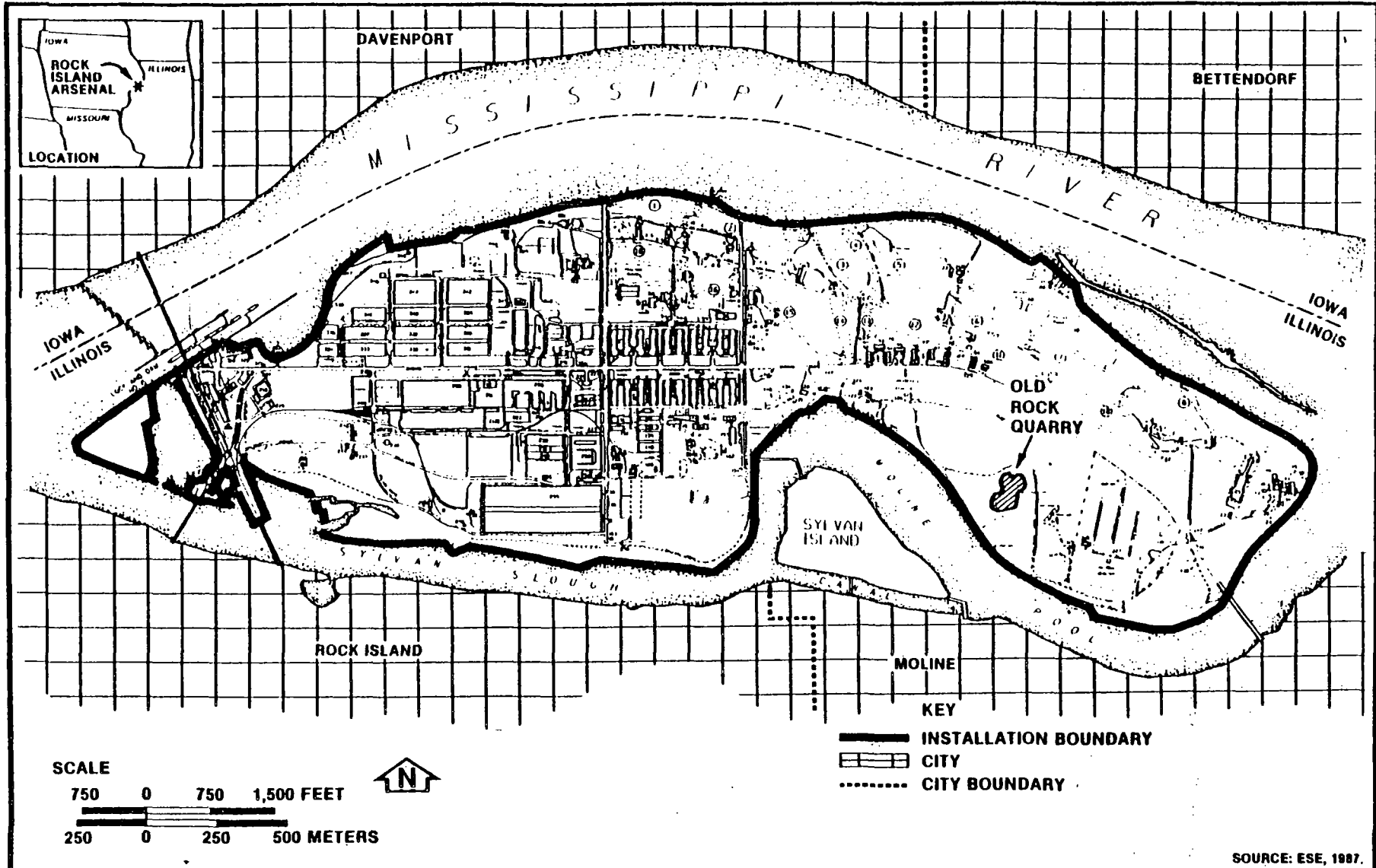
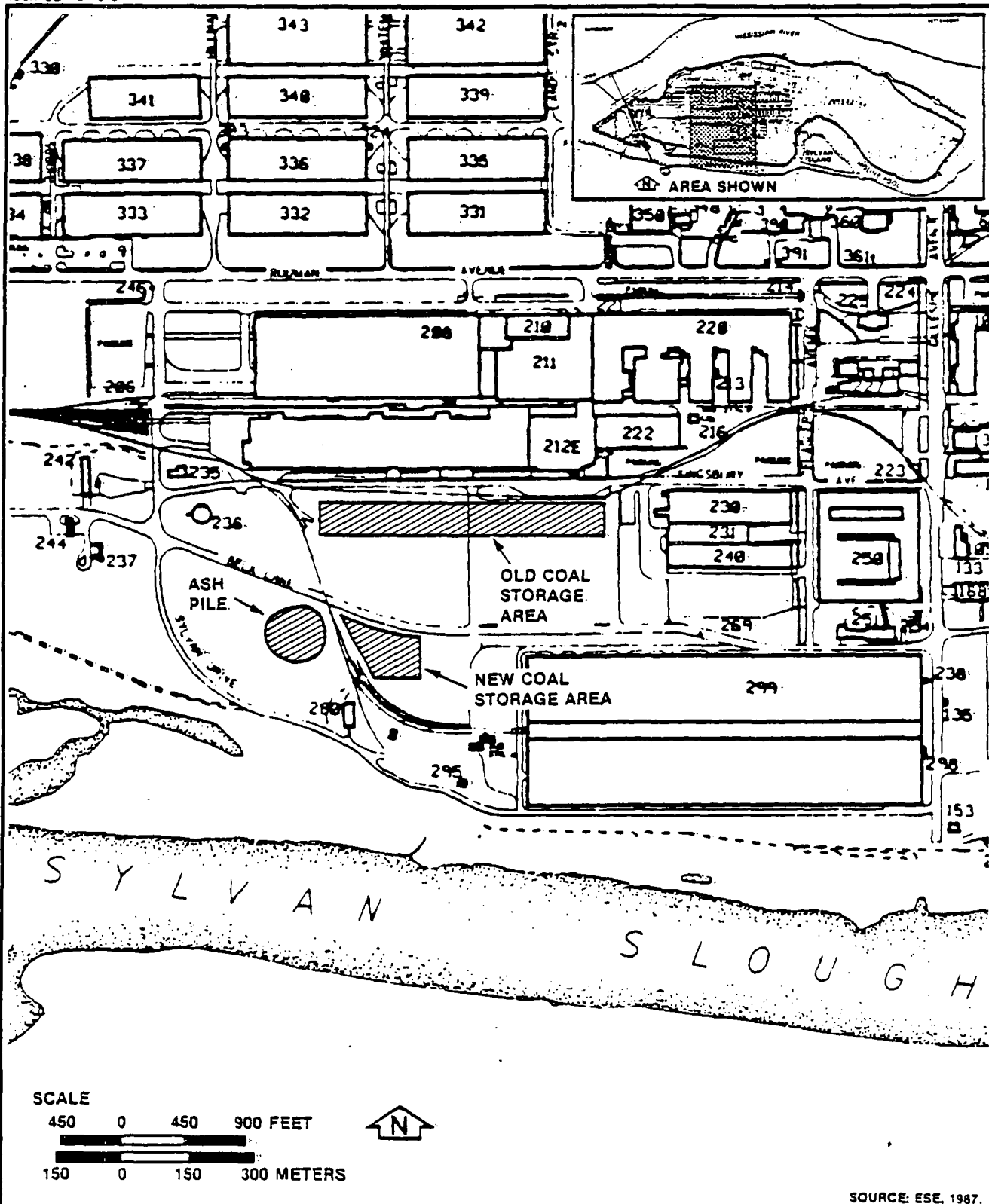


Figure 3-2
LOCATION OF OLD ROCK QUARRY

Prepared for:
U.S. Army Toxic and Hazardous
Materials Agency
Aberdeen Proving Ground, Maryland



SOURCE: ESE, 1987.

Figure 3-3
COAL STORAGE AREAS

Prepared for:
U.S. Army Toxic and Hazardous
Materials Agency
Aberdeen Proving Ground, Maryland

In 1984, the coal pile was moved south to the area shown on Fig. 3-3. This area was graded to bedrock and a sump was installed to provide runoff control. All runoff is collected in the limestone-filled sump. The limestone in the sump neutralizes any acidic runoff from the coal pile. Coal fines also settle-out in the sump. The coal fines are periodically removed and combusted in the installation boilers. Effluent from the sump is discharged to a wooded area south of the storage area. The discharge is permitted by IEPA; however, no effluent monitoring is required.

Bottom ash generated by the boilers is also stored adjacent to the coal pile. The location of the ash storage is also shown in Fig. 3-3. Runoff from the ash pile also is collected in the sump.

3.3 AREAS IDENTIFIED FROM AERIAL PHOTOGRAPHIC IMAGERY

The United States Environmental Protection Agency's Environmental Photographic Interpretation Center, under an interagency agreement with USATHAMA, prepared a report in which potential contamination areas on RIA were identified. These areas (Fig. 3-4) were identified based on ground staining, ground scarring, open trenches, aboveground tanks, open storage areas, mounded materials, vehicle and equipment storage, pits, standing liquid, drums, possible berms, and other signatures which are readily recognizable to photographic imagery experts.

The areas identified from aerial photographic imagery are described in Table 3-1. The study proved very useful in confirming the existing areal extent of various potential contamination areas identified in the 1979 IIA.

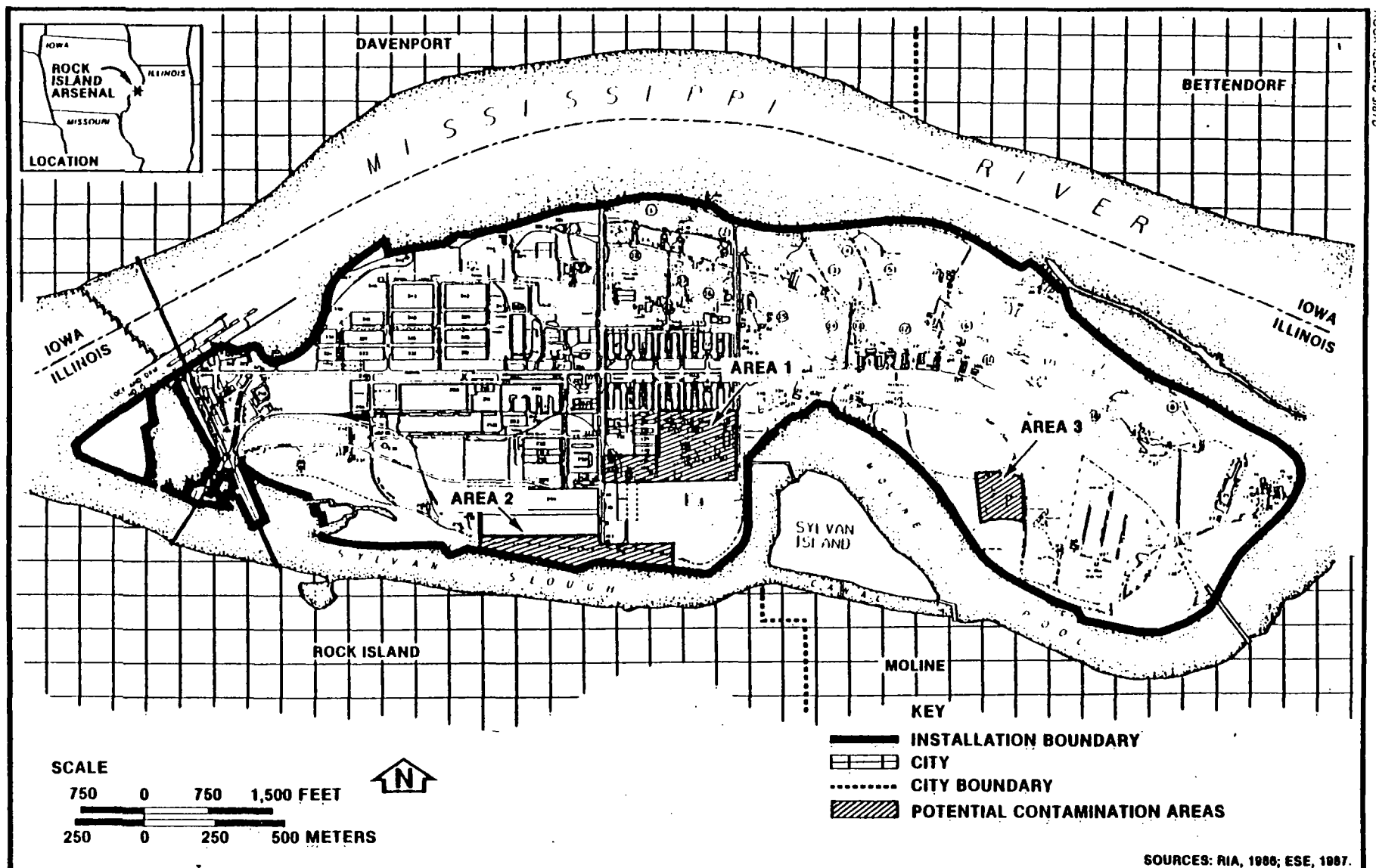


Figure 3-4
AREAS OF POTENTIAL CONTAMINATION IDENTIFIED
BY INTERPRETATION OF AERIAL PHOTOGRAPHIC IMAGERY

Prepared for:
U.S. Army Toxic and Hazardous
Materials Agency
Aberdeen Proving Ground, Maryland

Table 3-1. Description of Potential Contamination Areas Identified from Photographic Imagery

EPIC Area Number	EPIC Description of Area	Assessment of Area
1	Property Disposal Area	Area used for storage of excess material for disposal through DRMO. Area in use since prior to 1951. Materials stored in bins, drums, and bulk piles. The 1987 onsite visit did not indicate any change in status since the 1979 IIA. No hazardous materials are disposed of at this area.
2	Landfill	Landfill was used from 1920 to 1965. Materials disposed of include: oily sludges, waste cyanide salts, paint, lead and zinc chromates, building rubble, and wood debris. EPIC and the 1987 onsite visit indicate that the entire landfill area was not identified in the 1979 IIA. The old landfill was described in Sec. 2.3.2 of this current report.
3	Old Quarry	Quarry was used to mine rock prior to 1862. EPIC reports that the quarry was expanded from 1950 to 1970. RIA personnel deny any expansion activity during this period. The 1987 onsite visit indicates that the quarry is being backfilled with clean fill. RIA personnel report that the quarry has been used for limited waste disposal in the past.

Sources: EPIC, 1980.
ESE, 1987.

4.0 1987 EVALUATION OF ROCK ISLAND ARSENAL

4.1 FINDINGS

4.1.1 INDUSTRIAL WASTEWATER TREATMENT PLANT

The 1979 IIA indicated that potentially hazardous sludges, filter cake, and cyanide salts were stored in Bldg. 175. The IIA also indicated that the potential for spills and subsequent migration of hazardous materials existed because the storage areas were not bermed. It was recommended that RIA provide berms or other means to contain potential spills.

Since the IIA, RIA has sealed the floors of Bldg. 175 with epoxy paint, thereby providing a barrier to prevent any spilled materials from leaching through or permeating the concrete. In addition, RIA has installed curbing around the doorways to prevent any spilled materials from migrating to areas outside the building.

4.1.2 OLD LANDFILL

A landfill on the south side of RIA, adjacent to Sylvan Slough, was used from 1920 to 1965 for the disposal of industrial waste. The landfill was identified, prior to the 1979 IIA, as an area where migration could potentially occur. Five monitor wells were installed at the landfill, and a ground water contamination survey was conducted in July 1985 by USAEHA. The USAEHA studies recommended the installation of additional monitor wells and the initiation of a ground water monitoring program. Two additional upgradient monitor wells were installed in early 1986. Ground water from these wells has not yet been collected or analyzed for contamination.

As a result of the onsite assessment, it was determined that the landfill is larger than originally outlined in the 1979 IIA. EPIC photographs dating 1931 and 1958 show that the actual landfill boundaries extend

farther east and west than previously identified. The area covered by the clay cover (Fig. 2-1) includes only the old landfill boundaries as outlined in the 1979 IIA.

The actual boundaries identified by EPIC photographic imagery are indicated as the entire landfill area in Fig. 2-1. The aerial photographs show areas east of the old boundary that were used for waste oil and liquid disposal. Several pits containing standing liquid were observed in the aerial photographs. This method of disposal is consistent with the practices described in the IIA.

The ground water study conducted in 1979 did not indicate contamination of the water column (no exceedences of NIPDWR or NSDWR standards). The study indicated the presence of POL in the soil from the borings at the area. The new wells emplaced upgradient of the landfill in 1986 had not been sampled and analyzed at the time of the onsite visit. Because the landfill is more extensive than originally described in the 1979 IIA, the possibility exists that all areas of the landfill where contaminants may migrate toward the river do not have downgradient monitor wells.

4.1.3 PESTICIDES

Since the IIA, RIA has decided to contract pesticide handling, mixing, and spraying on the installation. Pesticides storage will continue in Bldg. 139, and the contractor will be responsible for mixing, disposal of cans, and application of pesticides. The pesticide storage and mixing building on RIA conforms with Federal and Army guidelines for pesticide facilities. No problems with respect to contaminant migration are anticipated at RIA.

4.1.4 POLYCHLORINATED BIPHENYLS

At the time of the 1979 IIA, RIA had not conducted an inventory to, determine if PCB-contaminated, PCB-containing, or PCB-filled transformers or other PCB items existed on the installation. Since the IIA, the

installation has performed the inventory and identified the locations of all transformers. Out-of-service transformers of RIA are transferred to Bldg. 242, an area which complies with Federal regulations for the storage of PCB items, while awaiting disposal. The installation notifies DRMO when out-of-service transformers are transferred to Bldg. 242, and DRMO then arranges a disposal contract with a licensed hazardous waste disposal company.

4.1.5 PETROLEUM, OILS, AND LUBRICANTS

Petroleum, oils, and lubricants are stored in aboveground and underground tanks at various locations on RIA.

Waste POL is collected at the point of generation (manufacturing and maintenance shops) and stored in underground tanks located at Bldg. 216. The tanks are checked on a periodic basis with a gauge stick to determine if any measurable leakage is occurring. When the tanks are nearly full, DRMO sells the waste POL to contractors. No leaks have been detected at this area.

Six aboveground 10,000-gal, POL-containing tanks were formerly located in Bldg. 155. Four of the tanks were abandoned, and all POL was removed, when leaks were discovered. All of the tanks and Bldg. 155, including concrete floors, were removed and disposed of in 1986.

Four new fiberglass tanks have recently been installed at the new filling station (Bldg. 244). These tanks are physically above the normal land surface, but have an earthen cover for added safety. Two monitor wells have been installed adjacent to the tanks; however, no samples of ground water have been collected and analyzed.

In 1986, RIA contracted for the removal of four underground tanks at Bldg. 144. After initiation of the excavation, it was discovered that 10 tanks, including some filled with POL, were located at this area.

During excavation some POL-contaminated soil and a POL sheen on the water contained in the tank excavation area were detected.

4.1.6 OLD QUARRY

An abandoned rock quarry exists on the eastern end of RIA. Prior to 1862, the quarry was used to obtain building construction materials for use in the local area. During the lifetime of RIA, the quarry has been used for the disposal of items including building rubble, clean fill, possible munitions, scrap metal, and cannon. The depth of the quarry is unknown. Since the IIA, RIA has made an effort to backfill the quarry with all clean fill and dirt which becomes available on the installation.

4.1.7 STORMWATER DISCHARGE

Stormwater at RIA is collected and discharged into the Mississippi River and Sylvan Slough at various points on the island. The IEPA has requested that the Arsenal comply with Federal and State regulations which require that stormwater discharge points be assigned an NPDES permit and be monitored on a regular basis. The RIA Environmental Coordinator indicates the application is being prepared and will be submitted during 1987.

4.1.8 COAL PILE

Since the 1979 IIA, RIA has created a new area for storing coal. The area was prepared by grading to bedrock and installing a collection sump to intercept surface water runoff. The sump was also filled with limerock to neutralize any acidic runoff from the coal pile. In addition, the sump collects coal particulate fines. The particulate fines are periodically removed from the sump and burned in the installation boiler. Effluent from the sump is discharged to a wooded area south of the storage area. No monitoring of the effluent is required by IEPA.

4.2 CONCLUSIONS

1. Available information on contaminant sources and the geohydrology of the installation indicates the potential for contamination of the shallow ground water and subsequent migration.
2. Due to the locations of the existing monitor wells, contaminants which may potentially migrate from the former liquid disposal pits at the old landfill may not be detected in the ground water.
3. The soils at Bldg. 144 may be contaminated with POL from the leaking underground tanks.
4. Stormwater drainage outfalls at RIA require NPDES permits.
5. Ground water monitor wells at the new filling station (Bldg. 244) have not been tested to determine if the storage tanks are leaking.
6. Munitions compounds may be present in the old quarry.

4.3 RECOMMENDATIONS (Keyed to Conclusions)

That USATHAMA should:

1. Not conduct an SI at RIA.

That RIA should:

2. Consider installation of additional monitor wells at the old landfill, the old quarry, and initiation of the ground water monitoring program recommended by USAEHA. The analysis program should include all priority pollutants and munitions compounds suspected to be present due to past manufacturing activities.
3. Ensure that the contractor removes all POL-contaminated soils at Bldg. 144, along with the abandoned tanks and their contents;
4. Continue with plans to submit NPDES permit applications for the stormwater outfalls; and
5. Consider continuous monitoring of the wells at Bldg. 244 with hydrocarbon detectors.

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APPENDIX A

RIA PERSONNEL CONTACTED

PERSONNEL INTERVIEWED

<u>Name</u>	<u>Title</u>
Dr. William S. Shore	Environmental Coordinator
Ms. Karen Beachler	Industrial Environmentalist
Mr. Walter Kisner	Director, Science and Engineering Directorate
Mr. Ralph Martens	Engineering and Housing Directorate, Engineering Division
Mr. Jerry Wickersham	NCRED-G, Civil Engineering Technician

APPENDIX B

DRILLING LOGS FOR MONITOR WELLS AT
OIL STORAGE FACILITY AND OLD LANDFILL

Pages 41-44 are non-responsive

APPENDIX C

TRANSFORMERS ON ROCK ISLAND ARSENAL

INVENTORY OF TRANSFORMERS IN RIA

Inspected

*David J. DeHaven**31 Dec 86*

LOCATION	P.P.M.	EQUIPMENT	MANUFACTURER	SIZE	SERIAL OR MODEL NO.	PCB		CONDITION			
						GALLONS	TEST DONE	NO. LEAK	SM. LEAK	MOD. LEAK	RUP- TURED
SUB - B	2.2	TRANS	ESCO	2500	10129767	900	9-14-85 #681	X			
SUB - B	4.6	TRANS	ESCO	2500	10129768	900	9-14-85 #682	X			
SUB - C	9.5	TRANS	ESCO	3750	11129871	1200	7-7-85 #603	X			
SUB - D	6.4	TRANS	ESCO	3750	11129884	1200	8-18-85 #462	X			
SUB - E	6.4	TRANS	ESCO	2500	11129894	900	9-14-85 #685		X		
SUB - E	14	TRANS	ESCO	2500	11129893	900	9-14-85 #686		X		
SUB - G	120	TRANS	G.E.	750	E688996	245	9-14-85 #683	X			
SUB - G	23	TRANS	G.E.	750	E688995	245	9-14-85 #684		X		
SUB - G		TRANS	WEST	1500	PCT08570101	210	FACTORY LABELED NON-PCB	X			
SUB - H	180	TRANS	WEST	2500	SBV-0365-0	327	9-14-85 #679	X			
SUB - H	170	TRANS	WEST	2500	SBV-0366-0	327	9-14-85 #680	X			
BLDG - 9	78	TRANS	G.E.	50	7667034	35	9-15-85 #691	REMOVED FROM SERVICE 11/19/86			
BLDG - 9	50	TRANS	G.E.	50	7667013	35	9-15-85 #692	REMOVED FROM SERVICE 11/19/86			
BLDG - 9	54	TRANS	G.E.	50	7668087	35	9-15-85 #693	REMOVED FROM SERVICE 11/19/86			
BLDG - 9	<1	TRANS	G.E.	3	1969815	Est 5	1-11-86 #767	X			
BLDG - 11	480	TRANS	G.E.	15	7301304	12.5	9-19-83	REMOVED FROM SERVICE 12/18/86			

C-1

INVENTORY OF TRANSFORMERS IN RIA

Inspected

David J. DeLan

LOCATION	P.P.M.	EQUIPMENT	MANUFACTURER	SIZE	SERIAL OR MODEL NO.	PCB		CONDITION			
						GALLONS	TEST DONE	NO. LEAK	SM. LEAK	MOD. LEAK	RUP- TURED
BLDG - 21	370	TRANS	G.E.	15	6959717	15	9-19-83	REMOVED FROM SERVICE			
BLDG - 25		TRANS	NIAGARA	1500	38380	394	9-14-85 #687	X			
BLDG - 25	-1	TRANS	G.E.	50	1666227Y68	35	10-3-85 #740	X			
BLDG - 25	44	TRANS	WEST	100	74E14176	54	9-15-85 #689	X			
BLDG - 25	61	TRANS	WEST	100	74E14178	54	9-15-85 #688	X			
BLDG - 25	59	TRANS	WEST	100	74E14167	54	9-15-85 #690	X			
BLDG - 31	1	TRANS	WEST	37.5	74A622086	32	10-3-85 #738	X			
BLDG - 31	20	TRANS	PENNSYL- VANIA	25	25268-5	20	9-19-83	X			
BLDG - 31	51	TRANS	WEST	25	2202372	29	9-19-83	X			
BLDG - 31	41	TRANS	WEST	25	2202371	29	9-19-83	X			
BLDG - 52	.5	TRANS	LINE MATERIAL	25	D3802207	13	9-15-85 #694	X			
BLDG - 52	.5	TRANS	LINE MATERIAL	25	D3916302	13	9-15-85 #695	X			
BLDG - 52	.25	TRANS	LINE MATERIAL	25	D3916307	13	9-15-85 #696	X			
BLDG - 52	80	TRANS	G.E.	200	6821407	105	9-15-85 #697	X			
BLDG - 52	110	TRANS	G.E.	200	6821408	105	9-15-85 #698	X			
BLDG - 52	62	TRANS	G.E.	200	6821409	105	9-15-85 #699	X			

INVENTORY OF TRANSFORMERS IN RIA

Inspected

David J. De Haan

LOCATION	P.P.M.	EQUIPMENT	MANUFACTURER	SIZE	SERIAL OR MODEL NO.	PCB		CONDITION			
						GALLONS	TEST DONE	NO. LEAK	SM. LEAK	MOD. LEAK	RUP- TURED
BLDG - 56	34	TRANS	G.E.	25	0 244432-57P	18	6-19-85 #449	X			
BLDG - 56	21	TRANS	R.T.E.	500	846006593	427	1-11-86 #765	X			
BLDG - 64	30	TRANS	WEST	200	3772895	105	7-7-85 #621	X			
BLDG - 64	36	TRANS	WEST	200	3140051	105	7-7-85 #620A	X			
BLDG - 64	.5	TRANS	WEST	200	3140054	105	7-7-85 #620	X			
BLDG - 64	21	TRANS	STANDARD	750	90197	495	7-7-85 #616	X			
BLDG - 64	18	TRANS	G.E.	150	7147085	74	7-7-85 #617	X			
BLDG - 64	100	TRANS	G.E.	150	6813812	74	7-7-85 #618	X			
BLDG - 64	66	TRANS	G.E.	150	6813806	74	7-7-85 #619	X			
BLDG - 64	.5	TRANS	WEST	50	83A430582	37	7-7-85 #614	X			
BLDG - 64	.5	TRANS	WEST	50	83A411980	37	7-7-85 #605	X			
BLDG - 64	.5	TRANS	WEST	50	83A411986	37	7-7-85 #615	X			
BLDG - 68		TRANS	SQUARE D	167	41050	Est 54	ASKAREL	X			
BLDG - 68		TRANS	SQUARE D	167	41048	Est 54	ASKAREL	X			
BLDG - 68		TRANS	SQUARE D	167	41049	Est 54	ASKAREL	X			
BLDG - 68		CAPACITOR Bank 12ea	G.E.	15 KVAR		1.5 ea	ASKAREL	X			

INVENTORY OF TRANSFORMERS IN RIA

Inspected

David J. DeFuria

LOCATION	P.P.M.	EQUIPMENT	MANUFACTURER	SIZE	SERIAL OR MODEL NO.	PCB		CONDITION			
						GALLONS	TEST DONE	NO. LEAK	SM. LEAK	MOD. LEAK	RUP- TURED
BLDG - 68		CAPACITOR Bank 12ea	WEST	15 KVAR		1.5 ea	INTERTEEN	X			
BLDG - 73	290	TRANS	WEST	1000	TAV869601	270	6-19-85 #456	X			
BLDG - 86	16	TRANS	G.E.	100	6813033	54	1-5-86 #759	X			
BLDG - 90	140	TRANS	MOLONEY	112.5	1933750	59	9-27-85 #729	X			
BLDG - 90	<1	TRANS	WEST	225	74M871052-3		1-12-86 #771	X			
BLDG - 104		CAPACITOR Bank 12ea	G.E.	15 KVAR		1.5 ea	PYRANOL	X			
BLDG - 106	110	TRANS	WEST	750	3419291	360	7-28-83 #204	X			
BLDG - 106	24	TRANS	KUHLMAN	200	940 621	175	7-28-83 #205	X			
BLDG - 106		TRANS	SQUARE D	750	820429-1	380	FACTORY LABELED NON-PCB	X			
BLDG - 106	<1	TRANS	WEST	25	83A463130	23	12-8-85 #751	X			
BLDG - 106	<1	TRANS	WEST	25	83A463131	23	12-8-85 #752	X			
BLDG - 106	<1	TRANS	WEST	37.5	83A480565	39	12-8-85 #753	X			
BLDG - 108		TRANS	WEST	2000	TAT7468-0101	320	FACTORY LABELED NON-PCB	X			
BLDG - 124	<1	TRANS	G.E.	15	E10541860Y	10	9-19-83	X			
CONFEDERATE CEMETARY	<1	TRANS	G.E.	10	M455741YCPA	10	1-4-86 #758	X			
BLDG - 128	410	TRANS	G.E.	25	6956092	18.5	9-19-83	REMOVED FROM SERVICE			

INVENTORY OF TRANSFORMERS IN RIA

Inspected

David J. DeLore

LOCATION	P.P.M.	EQUIPMENT	MANUFACTURER	SIZE	SERIAL OR MODEL NO.	PCB		CONDITION			
						GALLONS	TEST DONE	NO. LEAK	SM. LEAK	MOD. LEAK	RUP- TURED
BLDG - 131	-1	TRANS	WEST	167	67AH6512	Est. 54	7-7-85 #466	X			
BLDG - 131	-1	TRANS	WEST	75	68AB3929	Est. 40	7-7-85 #464	X			
BLDG - 131	-1	TRANS	WEST	75	68AA12609	Est. 40	7-7-85 #463	X			
BLDG - 131	-1	TRANS	WEST	75	68AA12608	Est. 40	7-7-85 #465	X			
BLDG - 133		TRANS	G.E.	10	N808985-YJX	Est. 10	FACTORY LABELED NON-PCB	X			
BLDG - 133		TRANS	G.E.	10	N808986-YJX	Est. 10	FACTORY LABELED NON-PCB	X			
BLDG - 133		TRANS	G.E.	10	N714738-YEX	Est. 10	FACTORY LABELED NON-PCB	X			
BLDG - 139	11	TRANS	MOLONEY	15	725311	Est. 12	12-8-85 #741	X			
BLDG - 139	13	TRANS	MOLONEY	15	725312	Est. 12	12-8-85 #742	X			
BLDG - 139	12	TRANS	MOLONEY	15	725310	Est. 12	12-8-85 #743	X			
BLDG - 139	3	TRANS	WEST	37.5	70A618065	Est. 25	12-8-85 #744	X			
BLDG - 139	3	TRANS	WEST	37.5	70AJ5320	Est. 25	12-8-85 #745	X			
BLDG - 139	3	TRANS	WEST	37.5	70AJ5321	Est. 25	12-8-85 #746	X			
BLDG - 144		TRANS	G.E.	37.5	N696638-YBX	Est. 25	FACTORY LABELED NON-PCB	X			
BLDG - 144		TRANS	G.E.	37.5	N802414-YIIX	Est. 25	FACTORY LABELED NON-PCB	X			
BLDG - 144		TRANS	G.E.	37.5	N802415-YHX	Est. 25	FACTORY LABELED NON-PCB	X			

INVENTORY OF TRANSFORMERS IN RIA

Inspected

David J. DeLuca

LOCATION	P.P.M.	EQUIPMENT	MANUFACTURER	SIZE	SERIAL OR MODEL NO.	PCB		CONDITION			
						GALLONS	TEST DONE	NO. LEAK	SM. LEAK	MOD. LEAK	RUP- TURED
BLDG 144		TRANS	G.E.	75	6586489	Est 40	12-8-85 754	X			
BLDG 157		TRANS	G.E.	25	D95503259Y	Est 18.5	12-8-85 747	X			
BLDG 157		TRANS	G.E.	25	D95503159Y	Est 18.5	12-8-85 748	X			
BLDG 157		TRANS	G.E.	25	D48221860P	Est 18.5	12-8-85 749	X			
BLDG 157	1	TRANS	G.E.	25	7095906	18.5	4-10-84 15	X			
BLDG 159		TRANS	G.E.	50	6585160	40	12-8-85 750	REMOVED FROM SERVICE			
BLDG 160		24 ea CAPACITOR	G.E.	15 KVAR		1.4 ea	PYRANOL	X			
BLDG 160		24 ea CAPACITOR	G.E.	15 KVAR		1.4 ea	PYRANOL	X			
BLDG 160		24 ea CAPACITOR	G.E.	15 KVAR		1.4 ea	PYRANOL	X			
BLDG 160		24 ea CAPACITOR	G.E.	15 KVAR		1.4 ea	PYRANOL	X			
BLDG 165	.5	TRANS	G.E.	10	17850Y748A	7.5	6-19-85 457	X			
BLDG 168		TRANS	G.E.	15	9252466	15	9-9-85 677	REMOVED FROM SERVICE 10/08/86			
BLDG 168		TRANS	G.E.	15	9252467	15	9-9-85 678	REMOVED FROM SERVICE 10/08/86			
BLDG 168	94	TRANS	G.E.	15	9252468	15	9-15-85 700	REMOVED FROM SERVICE 10/08/86			
BLDG 168		TRANS	G.E.	15	6958176	15	9-9-85 674	REMOVED FROM SERVICE 10/08/86			
BLDG 168		TRANS	G.E.	15	6958158	15	9-9-85 675	REMOVED FROM SERVICE 10/08/86			

INVENTORY OF TRANSFORMERS IN RIA

Inspected

David R. L...

LOCATION	P.P.M.	EQUIPMENT	MANUFACTURER	SIZE	SERIAL OR MODEL NO.	PCB		CONDITION			
						GALLONS	TEST DONE	NO. LEAK	SM. LEAK	MOD. LEAK	RUP- TURED
BLDG - 168	833	TRANS	G.E.	15	6958193	15	9-9-85 #676	REMOVED FROM SERVICE 10/08/86			
BLDG - 168	< 1	TRANS	MOLONEY	15	710861	15	7-10-83 #602	X			
BLDG - 204	56	TRANS	G.E.	50	6808501	40	7-10-83 #607	X			
BLDG - 204	27	TRANS	G.E.	50	6808502	40	7-10-83 #609	X			
BLDG - 204	48	TRANS	G.E.	50	6808500	40	7-10-83 #608	X			
BLDG - 206	< 1	TRANS	STANDARD	15	R-20459	Est 15	7-10-83 #613	X			
BLDG - 206	< 1	TRANS	MOLONEY	5	48645	Est 7	7-10-83 #614	X			
BLDG - 208		TRANS	WEST	2000	TAT7794-0102	264	FACTORY LABELED NON-PCB	X			
BLDG - 208		TRANS	WEST	2000	TAT7794-0101	264	FACTORY LABELED NON-PCB	X			
BLDG - 208		TRANS	WEST	1000	TAT7796-0101	204	FACTORY LABELED NON-PCB	X			
BLDG - 208		TRANS	G.E.	2500	N650452	395	FACTORY LABELED NON-PCB	X			
BLDG - 208		CAPACITOR Bank 12ea	G.E.	15 KVAR		1.5 ea	PYRANOL	REMOVED FROM SERVICE			
BLDG - 208		CAPACITOR Bank 12ea	G.E.	15 KVAR		1.5 ea	INERTEEN	REMOVED FROM SERVICE			
BLDG - 211		TRANS	WEST	750	85JA347250	445	FACTORY LABELED NON-PCB	X			
BLDG - 211		TRANS	WEST	2000	TAT7794-0104	264	FACTORY LABELED NON-PCB	X			
BLDG - 212		TRANS	WEST	2000	TAT7794-0103	264	FACTORY LABELED NON-PCB	X			

INVENTORY OF TRANSFORMERS IN RIA

Inspected

David J. McLean

LOCATION	P.P.M.	EQUIPMENT	MANUFACTURER	SIZE	SERIAL OR MODEL NO.	PCB		CONDITION			
						GALLONS	TEST DONE	NO. LEAK	SM. LEAK	MOD. LEAK	RUP- TURED
BLDG - 212		TRANS	WEST	1500	85JA339229	440	FACTORY LABELED NON-PCB	X			
BLDG - 217	689	TRANS	WEST	225	68K3113	Est. 150	1-11-86 #761	X			
BLDG - 220		TRANS	WEST	2000	TAT7795-0101	275	FACTORY LABELED NON-PCB	X			
BLDG - 220	80	TRANS	WEST	1000	3417803	495	8-18-85 #606	X			
BLDG - 220	86	TRANS	WEST	1000	3417802	495	8-18-85 #607	X			
BLDG - 220	66	TRANS	WEST	1000	3412608	495	8-18-85 #469	X			
BLDG - 220	32	TRANS	WEST	1000	3414791	495	8-18-85 #604	X			
BLDG - 220	100	TRANS	WEST	250	67K8920	Est. 100	8-19-85 #667	X			
BLDG - 220	100	TRANS	WEST	250	67K8922	Est. 100	8-19-85 #668	X			
BLDG - 220	120	TRANS	WEST	250	6565747	Est 100	8-19-85 #669	X			
BLDG - 220		TRANS	G.E.	1.5	5327929	Est. 5		X			
BLDG - 220		TRANS	WEST	300	73H546126	Est 80	8-18-85 #468	X			
BLDG - 220		TRANS	WEST	225	73H547068	Est 75	8-18-85 #467	X			
BLDG - 220		TRANS	WEST	300	73H546265	Est 80	8-19-85 #670	X			
BLDG - 220		TRANS	G.E.	3	1924067	3.25		X			
BLDG - 222		TRANS	WEST	1000	85JA339227	470	FACTORY LABELED NON-PCB	X			

INVENTORY OF TRANSFORMERS IN RIA

Inspected

Daniel T. McAn

LOCATION	P.P.M.	EQUIPMENT	MANUFACTURER	SIZE	SERIAL OR MODEL NO.	PCB		CONDITION			
						GALLONS	TEST DONE	NO. LEAK	SM. LEAK	MOD. LEAK	RUP- TURED
BLDG - 222		TRANS	R.T.E.	112.5	816004035	175	8-18-85 #613	X			
BLDG - 222	1.8	TRANS	MOLONEY	200	682930	153	8-18-85 #610A	X			
BLDG - 222	1.2	TRANS	MOLONEY	200	682932	153	8-18-85 #611	X			
BLDG - 222	2	TRANS	MOLONEY	200	682931	153	8-18-85 #612	X			
BLDG - 222	40	TRANS	ALLIS CHALMERS	200	1760656	110	8-7-85 #B	REMOVED BY CONTRACTOR			
BLDG - 222	48	TRANS	ALLIS CHALMERS	200	1760657	110	8-7-85 #C	REMOVED BY CONTRACTOR			
BLDG - 222	39	TRANS	ALLIS CHALMERS	200	1760645	110	8-7-85 #A	REMOVED BY CONTRACTOR			
BLDG - 225		TRANS	WEST	112.5	85JK54204T	175	FACTORY LABELED NON-PCB	X			
BLDG - 240	20	TRANS	G.E.	750	G854393	180	6-20-85 #664	X			
BLDG - 240	550	TRANS	G.E.	750	G7730370	340	6-20-85 #665		X		
BLDG - 240	23	TRANS	G.E.	500	G854394	150	6-20-85 #666	X			
BLDG - 240		CAPACITOR Bank 3 ea	G.E.	50 KVAR	51F201AA	Est. 2.5 ea	PYRANOL	X			
BLDG - 240		CAPACITOR Bank 3 ea	G.E.	50 KVAR	51F201AA	Est. 2.5 ea	PYRANOL	X			
BLDG - 250	180	TRANS	G.E.	1500	7569933	459	8-18-85 #608	X			
BLDG - 250		CAPACITOR Bank 12 ea	West	15 KVAR		1.5 ea	INERTEEN	X			
BLDG - 250		CAPACITOR Bank 12 ea	G.E.	15 KVAR		1.5 ea	PYRANOL	X			

INVENTORY OF TRANSFORMERS IN RIA

Inspected

David L. DeHaven

LOCATION	P.P.M.	EQUIPMENT	MANUFACTURER	SIZE	SERIAL OR MODEL NO.	PCB		CONDITION			
						GALLONS	TEST DONE	NO. LEAK	SM. LEAK	MOD. LEAK	RUP- TURED
BLDG - 299		TRANS	WEST	750	5067307	430	INTEREEN	X			
LIFT STATION - 299	< 1	TRANS	G.E.	75	L886336YMLA	Est 54	7-10-83 #612	X			
LIFT STATION - 299	< 1	TRANS	G.E.	75	L886337YMLA	Est 54	7-10-83 #611	X			
LIFT STATION - 299	< 1	TRANS	G.E.	75	L885958HMLA	Est 54	7-10-83 #610	X			
BLDG - 312	20	TRANS	G.E.	75	6581663	54	1-11-86 #764	X			
BLDG - 312	16	TRANS	G.E.	75	6581662	54	1-11-86 #763	X			
BLDG - 312	7	TRANS	POLE STAR	167	14633-1-1	Est 40	1-11-86 #762	X			
BLDG - 321	305	TRANS	G.E.	25	6954493	18.5	1-11-86 #768	X			
BLDG - 334		TRANS	WEST	50	85A352851	37	FACTORY LABELED NON-PCB	X			
BLDG - 336	1	TRANS	WEST	37.5	80A460464	Est 39	9-27-85 #725	X			
BLDG - 336	1	TRANS	WEST	37.5	80A460465	Est 39	9-27-85 #726	X			
BLDG - 336	1	TRANS	WEST	37.5	80A460467	Est 39	9-27-85 #727	X			
BLDG - 337	.5	TRANS	G.E.	15	M4658721YCPA	Est 15	9-20-85 #712	X			
BLDG - 337	.5	TRANS	G.E.	15	M465871YCPA	Est 15	9-20-85 #713	X			
BLDG - 337	.5	TRANS	G.E.	15	M492881YDPA	Est 15	9-20-85 #714	X			
BLDG - 337	.5	TRANS	G.E.	15	N391047YKTA	Est 15	9-20-85 #709	REMOVED TO POLE PILE			

INVENTORY OF TRANSFORMERS IN RIA

Inspected

Daniel J. Blawie

LOCATION	P.P.M.	EQUIPMENT	MANUFACTURER	SIZE	SERIAL OR MODEL NO.	PCB		CONDITION			
						GALLONS	TEST DONE	NO. LEAK	SM. LEAK	MOD. LEAK	RUP- TURED
BLDG - 337	.5	TRANS	G.E.	15	N391046YKTA	Est 15	9-20-85 #710	REMOVED	TO	POLE	PILE
BLDG - 337	.5	TRANS	G.E.	15	N391048YKTA	Est 15	9-20-85 #711	REMOVED	TO	POLE	PILE
BLDG - 338		TRANS	G.E.	37.5	84A303053	39	FACTORY LABELED NON-PCB	X			
BLDG - 338		TRANS	G.E.	37.5	84A303054	39	FACTORY LABELED NON-PCB	X			
BLDG - 338		TRANS	G.E.	37.5	84A303055	39	FACTORY LABELED NON-PCB	X			
BLDG - 341		TRANS	G.E.	15	N911705-YDY	Est 15	FACTORY LABELED NON-PCB	X			
BLDG - 341		TRANS	G.E.	15	N911706-YDY	Est 15	FACTORY LABELED NON-PCB	X			
BLDG - 341		TRANS	G.E.	15	N911707-YDY	Est 15	FACTORY LABELED NON-PCB	X			
BLDG - 341	230	TRANS	G.E.	37.5	6960595	Est 39	1-28-85 #5028-03	X			
BLDG - 342	1.0	TRANS	WEST	25	80A390521	Est 18	9-27-85 #719	X			
BLDG - 342	1.0	TRANS	WEST	25	80A390522	Est 18	9-27-85 #720	X			
BLDG - 343	1.0	TRANS	WEST	25	80A390520	Est 18	9-27-85 #721	X			
BLDG - 343	1.0	TRANS	WEST	37.5	80A460466	Est 39	9-27-85 #722	X			
BLDG - 343	1.0	TRANS	WEST	37.5	80A460468	Est 39	9-27-85 #723	X			
BLDG - 343	1.0	TRANS	WEST	37.5	80A460463	Est 39	9-27-85 #724	X			
BLDG - 344	10	TRANS	WEST	10	60B11234	Est 10	9-20-85 #715	REMOVED	FROM	SERVICE	

INVENTORY OF TRANSFORMERS IN RIA

Inspected

David L. De An

LOCATION	P.P.M.	EQUIPMENT	MANUFACTURER	SIZE	SERIAL OR MODEL NO.	PCB		CONDITION			
						GALLONS	TEST DONE	NO. LEAK	SM. LEAK	MOD. LEAK	RUP- TURED
BLDG - 344	30	TRANS	WEST	10	60B10047	Est 10	9-20-85 #716	REMOVED FROM SERVICE			
BLDG - 344	15	TRANS	WEST	10	60B13932	Est 10	9-20-85 #717	REMOVED FROM SERVICE			
BLDG - 344	360	TRANS	G.E.	10	7098049	Est 10	9-20-85 #718	REMOVED FROM SERVICE			
COL. DAV. BLDG - 346	61	TRANS	G.E.	10	D112018	Est 10	6-19-85 #448	X			
BLDG - 348		TRANS	WEST	750	76C185129	440		X			
BLDG - 350		TRANS	SQUARE D	300	40117	127	ASKAREL	X			
BLDG - 350		TRANS	SQUARE D	500	40116	181	ASKAREL	X			
BLDG - 350		TRANS	ESCO	225	1840907	148	ASKAREL	X			
BLDG - 350		TRANS	ESCO	300	1840908	241	ASKAREL	X			
BLDG - 350		TRANS	VAN TRAN	500	66B3487	150	ASKAREL	X			
BLDG - 350		TRANS	G.E.	300	L713714TNA	130		X			
BLDG - 350		TRANS	G.E.	300	J928519T71AA	Est 130		X			
BLDG - 350		TRANS	G.E.	150	J928517T71AA	Est 80		X			
BLDG - 350		CAPACITOR Bank 12ea	G.E.	15 KVAR		1.43 ea	PYRANOL	X			
BLDG - 350		CAPACITOR Bank 12ea	G.E.	15 KVAR		1.43 ea	PYRANOL	X			
BLDG - 390	31	TRANS	WEST	150	3100151	Est 80	9-17-85 #702	REMOVED FROM SERVICE			

INVENTORY OF TRANSFORMERS IN RIA

Inspected

David J. DeLuca

LOCATION	P.P.M.	EQUIPMENT	MANUFACTURER	SIZE	SERIAL OR MODEL NO.	PCB		CONDITION			
						GALLONS	TEST DONE	NO. LEAK	SM. LEAK	MOD. LEAK	RUP- TURED
BLDG - 390		TRANS	WEST	167.5	86A121758	63		X			
BLDG - 390		TRANS	WEST	167.5	86A121756	63		X			
BLDG - 390		TRANS	WEST	167.5	86A101755	63		X			
BLDG - 390		TRANS	WEST	167.5	86A113600	62		X			
BLDG - 390		TRANS	WEST	167.5	86A113599	62		X			
BLDG - 390		TRANS	WEST	167.5	86A113598	62		X			
BLDG - 337		TRANS	G.E.	25	P113401-YTA	13.3	8-8-86 #777	X			
BLDG - 337		TRANS	G.E.	25	P118399-YTA	13.3	8-8-86 #778	X			
BLDG - 337		TRANS	G.E.	25	P118400-YTA	13.3	8-8-86 #776	X			
BLDG - 9		TRANS	G.E.	50	P166084-YWA	19.6	11-18-86 #780	X			
BLDG - 9		TRANS	G.E.	50	P166083-YWA	19.6	11-17-86 #779	X			
BLDG - 9		TRANS	G.E.	50	P166085-YWA	19.6	11-18-86 #781	X			
GOV. BRIDGE BLDG 320		TRANS	G.E.	75	P166387-YWA	33.0	11-21-86 #790	X			
BLDG 159		TRANS	G.E.	50	P114111-YSA	31.0	11/20/86 #783	X			
BLDG 21		TRANS	G.E.	15	P099741-YSA	10.8	11/20/86 #785	X			
BLDG 128		TRANS	G.E.	25	P156952-YWA	18.1	11-21-86 #792	X			
BLDG 11		TRANS	G.E.	15	P099743-YSA	10.8	11-20-86 #786	X			

INVENTORY OF TRANSFORMERS IN RIA

Inspected

David L. Reiter

LOCATION	P.P.M.	EQUIPMENT	MANUFACTURER	SIZE	SERIAL OR MODEL NO.	PCB		CONDITION			
						GALLONS	TEST DONE	NO. LEAK	SM. LEAK	MOD. LEAK	RUP- TURED
BLDG - 390	34	TRANS	WEST	150	3100149	Est 80	9-17-85 #703	REMOVED FROM SERVICE			
BLDG - 390	41	TRANS	WEST	150	3100153	Est 80	9-17-85 #704	REMOVED FROM SERVICE			
BLDG - 390	95	TRANS	WEST	150	3100154	Est 80	9-17-85 #705	REMOVED FROM SERVICE			
BLDG - 390	81	TRANS	WEST	150	3100152	Est 80	9-17-85 #706	REMOVED FROM SERVICE			
BLDG - 390	39	TRANS	WEST	150	3100150	Est 80	9-17-85 #707	REMOVED FROM SERVICE			
GOVERNMENT BRIDGE	83	TRANS	G.E.	37.5	6294725	32	6-30-85 #461	X			
GOVERNMENT BRIDGE	140	TRANS	G.E.	37.5	6291983	32	6-30-85 #600	X			
GOVERNMENT BRIDGE		TRANS	G.E.	37.5	6294724	32	6-30-85 #460A	X			
GOVERNMENT BRIDGE	100	TRANS	G.E.	75	6586572	54	6-30-85 #600A	REMOVED FROM SERVICE			
PARRON CIRCLE	101	TRANS	G.E.	50	K292479Y71AA	Est 40	1-4-86 #757	X			
MURPHY CIRCLE	46	TRANS	G.E.	75	K292585Y71AA	Est 54	1-4-86 #756	X			
MACARTHER DRIVE		TRANS	G.E.	75	N635284YKN	Est 54	FACTORY LABELED NON-PCB	X			
CHAMBERLAIN DRIVE	5	TRANS	G.E.	50	K292480Y71AA	Est 37	1-4-86 #755	X			
So. Street NEW CHILLER BLDG		TRANS	SQUARE D	1000	8105581	289		X			
V Area PUMP HOUSE	5	TRANS	G.E.	50	L781222Y74AA	Est 37	6-19-85 #453	X			
V Area PUMP HOUSE	5	TRANS	G.E.	50	M358391YKNA	Est 37	6-19-85 #454	X			

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INVENTORY OF TRANSFORMERS IN RIA

Inspected

Daniel S. De Luca

LOCATION	P.P.M.	EQUIPMENT	MANUFACTURER	SIZE	SERIAL OR MODEL NO.	PCB		CONDITION			
						GALLONS	TEST DONE	NO. LEAK	SM. LEAK	MOD. LEAK	RUP- TURED
V Area PUMP HOUSE	5	TRANS	G.E.	50	M360661YKNA	Est 37	6-19-85 #455	X			
CLOCK TOWER	1	TRANS	G.E.	10	J127483Y69	Est 10	9-27-85 #728	X			
SALVAGE YARD	9.1	TRANS	WEST	75	3770409	Est 54	6-19-85 #450A	X			
SALVAGE YARD	8.1	TRANS	WEST	75	3770399	Est 54	6-19-85 #451	X			
SALVAGE YARD	8.6	TRANS	WEST	75	3770401	Est 54	6-19-85 #452	X			
MOLINE GUARD SHACK	1	TRANS	DOWZER	10	79D1754401	Est 10	10-3-85 #739	X			
MOLINE GUARD SHACK	< 1	TRANS	DOWZER	25	79D1754301	Est 18	1-12-86 #770	X			
QUARTERS 1	< 1	TRANS	G.E.	50	833601VDLA	Est 37	1-8-86 #760	X			
QUARTERS 2	1	TRANS	WEST	25	74AJ11665	Est 18	10-3-85 #736	X			
QUARTERS 3 and 4	45	TRANS	WEST	50	74K9379	Est 37	10-2-85 #730	X			
QUARTERS 6	42	TRANS	G.E.	15	7141646	12.5	10-2-85 #731	X			
QUARTERS 7	1	TRANS	WEST	25	74AJ11667	Est 18	10-2-85 #732	X			
QUARTERS 11 & 12	230	TRANS	G.E.	37.5	6960581	33	10-3-85 #735		X		
QUARTERS 23 & 24	230	TRANS	G.E.	37.5	6960575	33	10-3-85 #734	X			
QUARTERS 24	1	TRANS	G.E.	25	M535028YFPA	Est 18	10-3-85 #733	X			
PUMP NEW QRTS	< 1	TRANS	G.E.	10	K478319K72A	10	9-18-83	X			

INVENTORY OF TRANSFORMERS IN RLA

Inspected

David L. De Sen

LOCATION	P.P.M.	EQUIPMENT	MANUFACTURER	SIZE	SERIAL OR MODEL NO.	PCB		CONDITION			
						GALLONS	TEST DONE	NO. LEAK	SM. LEAK	MOD. LEAK	RUP- TURED
PUMP NEW QRTS	21	TRANS	G.E.	10	K478318K72A	10	9-18-83	X			
ROCK ISLAND VIA DUCT		TRANS	WEST	25	82A-062000	Est 18	9-19-85 #708	X			
NORTH GILLESPIE		TRANS	G.E.	10	N714736-YCX	Est 10	FACTORY LABELED NON-PCB	X			
BLDG - 168		TRANS	G.E.	10	P048067-YNA	9.1	8-8-86 #774	X			
BLDG - 168		TRANS	G.E.	15	P099744-YSA	10.8	8-8-86 #775	X			
BLDG - 168		TRANS	G.E.	10	P048068-YNA	9.1	8-8-86 #772	X			
BLDG - 168		TRANS	G.E.	10	P048066-YNA	9.1	8-8-86 #773	X			

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APPENDIX D

IEPA UNDERGROUND
STORAGE TANK NOTIFICATION

Notification for Underground Storage Tanks

FORM APPROVED
OMB NO. 2050-0048
APPROVAL EXPIRES 6-30-88

FOR
TANKS
IN
IL

RETURN
COMPLETED
FORM
TO

UST Coordinator, Division of Fire Prevention
Office of State Fire Marshal
P.O. Box 3803
Springfield, IL 62708-3803

STATE USE ONLY
I.D. Number
Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances; and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;

4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;

5. surface impoundments, pits, ponds, or lagoons;

6. storm water or waste water collection systems;

7. flow-through process tanks;

8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;

9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed \$10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must be completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of
continuation sheets
attached

6

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

U.S. Government

Street Address

Rock Island Arsenal

County

Rock Island

City

Rock Island,

State

Illinois

ZIP Code

61299-5000

Area Code

309

Phone Number

782-1491

Type of Owner (Mark all that apply ☒)

☐ Current

☐ State or Local Gov't

☐ Private or Corporate

☐ Former

☒ Federal Gov't
(GSA facility I.D. no. _____)

☐ Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section I, mark box here ☒)

Facility Name or Company Site Identifier, as applicable

Street Address or State Road, as applicable

County

City (nearest)

State

ZIP Code

Indicate
number of
tanks at this
location

27

Mark box here if tank(s)
are located on land within
an Indian reservation or
on other Indian trust lands ☐

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here ☒)

Dr. William Shore

Job Title

Environmental Coordinator

Area Code

309

Phone Number

782-1491

IV. TYPE OF NOTIFICATION

☐ Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative

John M. Gamino, Colonel, Ordnance Corps,
Commanding

Signature

SIGNED

Date Signed

8 MAY 1986

CONTINUE ON REVERSE SIDE

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4	Tank No. 5
I. Status of Tank (Mark all that apply <input type="checkbox"/>) Currently in Use Temporarily Out of Use Permanently Out of Use Brought into Use after 5/8/86	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
II. Estimated Age (Years)	4	1	1	1	3
III. Estimated Total Capacity (Gallons)	20,000	15,000	10,000	10,000	1,000
IV. Material of Construction (Mark one <input type="checkbox"/>) Steel Concrete Fiberglass Reinforced Plastic Unknown Other, Please Specify _____	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
V. Internal Protection (Mark all that apply <input type="checkbox"/>) Cathodic Protection Interior Lining (e.g., epoxy resins) None Unknown Other, Please Specify _____	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
VI. External Protection (Mark all that apply <input type="checkbox"/>) Cathodic Protection Painted (e.g., asphaltic) Fiberglass Reinforced Plastic Coated None Unknown Other, Please Specify _____	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
VII. Piping (Mark all that apply <input type="checkbox"/>) Bare Steel Galvanized Steel Fiberglass Reinforced Plastic Cathodically Protected Unknown Other, Please Specify _____	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
VIII. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply <input type="checkbox"/>) a. Empty b. Petroleum Diesel Kerosene Gasoline (including alcohol blends) Used Oil Other, Please Specify _____ c. Hazardous Substance	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> DCS*	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No. -- Mark box <input type="checkbox"/> if tank stores a mixture of substances d. Unknown	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
IX. Additional Information (for tanks permanently taken out of service) a. Estimated date last used (mo/yr) b. Estimated quantity of substance remaining (gal.) c. Mark box <input type="checkbox"/> if tank was filled with inert material (e.g., sand, concrete)	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>

VI DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. 6	Tank No. 7	Tank No. 8	Tank No. 9	Tank No. 10
I. Status of Tank (Mark all that apply <input type="checkbox"/>) Currently in Use Temporarily Out of Use Permanently Out of Use Brought into Use after 5/8/86	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2. Estimated Age (Years)	5	3	69	69	69
3. Estimated Total Capacity (Gallons)	1,000	12,000	15,000	15,000	15,000
4. Material of Construction (Mark one <input type="checkbox"/>) Steel Concrete Fiberglass Reinforced Plastic Unknown Other, Please Specify _____	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____
5. Internal Protection (Mark all that apply <input type="checkbox"/>) Cathodic Protection Interior Lining (e.g., epoxy resins) None Unknown Other, Please Specify _____	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> _____
6. External Protection (Mark all that apply <input type="checkbox"/>) Cathodic Protection Painted (e.g., asphaltic) Fiberglass Reinforced Plastic Coated None Unknown Other, Please Specify _____	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____
7. Piping (Mark all that apply <input type="checkbox"/>) Bare Steel Galvanized Steel Fiberglass Reinforced Plastic Cathodically Protected Unknown Other, Please Specify _____	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> None	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> None	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> None
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply <input type="checkbox"/>) a. Empty b. Petroleum Diesel Kerosene Gasoline (including alcohol blends) Used Oil Other, Please Specify _____ c. Hazardous Substance Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No. d. Mark box <input type="checkbox"/> if tank stores a mixture of substances d. Unknown	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> _____
9. Additional Information (for tanks permanently taken out of service) a. Estimated date last used (mo/yr) b. Estimated quantity of substance remaining (gal.) c. Mark box <input type="checkbox"/> if tank was filled with inert material (e.g., sand, concrete)	 _____ _____ <input type="checkbox"/>	 _____ _____ <input type="checkbox"/>	 _____ _____ <input type="checkbox"/>	 _____ _____ <input type="checkbox"/>	 _____ _____ <input type="checkbox"/>

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. 11	Tank No. 12	Tank No. 13	Tank No. 14	Tank No. 15
1. Status of Tank (Mark all that apply <input type="checkbox"/>)					
Currently in Use	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Temporarily Out of Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permanently Out of Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Brought into Use after 5/8/86	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Estimated Age (Years)	69	15	1	40	40
3. Estimated Total Capacity (Gallons)	15,000	7,000	500	10,000	10,000
4. Material of Construction (Mark one <input type="checkbox"/>)					
Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concrete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
5. Internal Protection (Mark all that apply <input type="checkbox"/>)					
Cathodic Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interior Lining (e.g., epoxy resins)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
6. External Protection (Mark all that apply <input type="checkbox"/>)					
Cathodic Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Painted (e.g., asphaltic)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fiberglass Reinforced Plastic Coated	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
7. Piping (Mark all that apply <input type="checkbox"/>)					
Bare Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cathodically Protected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply <input type="checkbox"/>)					
a. Empty	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Petroleum					
Diesel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kerosene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gasoline (including alcohol blends)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Used Oil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify		Burner Oil		DCS*	
c. Hazardous Substance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Please indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No.					
Mark box <input type="checkbox"/> if tank stores a mixture of substances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Additional Information (for tanks permanently taken out of service)					
a. Estimated date last used (mo/yr)	/	/	/	/	7/81
b. Estimated quantity of substance remaining (gal.)					0
c. Mark box <input type="checkbox"/> if tank was filled with inert material (e.g., sand, concrete)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. 16	Tank No. 17	Tank No. 18	Tank No. 19	Tank No. 20
Status of Tank (Mark all that apply <input type="checkbox"/>)					
Currently in Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporarily Out of Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permanently Out of Use	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Brought into Use after 5/8/86	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Estimated Age (Years)	4	40	40	40	40
Estimated Total Capacity (Gallons)	1000	1065	1000	500	500
Material of Construction (Mark one <input type="checkbox"/>)					
Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
Internal Protection (Mark all that apply <input type="checkbox"/>)					
Cathodic Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interior Lining (e.g., epoxy resins)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
External Protection (Mark all that apply <input type="checkbox"/>)					
Cathodic Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Painted (e.g., asphaltic)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fiberglass Reinforced Plastic Coated	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
Piping (Mark all that apply <input type="checkbox"/>)					
Bare Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cathodically Protected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply <input type="checkbox"/>)					
a. Empty	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
b. Petroleum					
Diesel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kerosene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gasoline (including alcohol blends)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Used Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
c. Hazardous Substance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Please Indicate Name of Principal CERCLA Substance					
OR					
Chemical Abstract Service (CAS) No.					
Mark box <input type="checkbox"/> if tank stores a mixture of substances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional Information (for tanks permanently taken out of service)					
a. Estimated date last used (mo/yr)	3 / 85	5 / 75	5 / 75	5 / 75	5 / 75
b. Estimated quantity of substance remaining (gal.)	0	0	0	0	0
c. Mark box <input type="checkbox"/> if tank was filled with inert material (e.g., sand, concrete)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. 21	Tank No. 22	Tank No. 23	Tank No. 24	Tank No. 25
Status of Tank (Mark all that apply <input type="checkbox"/>)					
Currently in Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporarily Out of Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permanently Out of Use	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Brought into Use after 5/8/86	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Estimated Age (Years)	40	40	40	40	40
Estimated Total Capacity (Gallons)	265	420	465	1000	1000
Material of Construction (Mark one <input type="checkbox"/>)					
Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
Internal Protection (Mark all that apply <input type="checkbox"/>)					
Cathodic Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interior Lining (e.g., epoxy resins)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
External Protection (Mark all that apply <input type="checkbox"/>)					
Cathodic Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Painted (e.g., asphaltic)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic Coated	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
Piping (Mark all that apply <input type="checkbox"/>)					
Bare Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cathodically Protected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify				Wrapped	Wrapped
Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply <input type="checkbox"/>)					
a. Empty	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
b. Petroleum					
Diesel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kerosene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gasoline (including alcohol blends)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Used Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
c. Hazardous Substance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No.					
Mark box <input type="checkbox"/> if tank stores a mixture of substances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional Information (for tanks permanently taken out of service)					
a. Estimated date last used (mo/yr)	9/75	9/70	9/70	9/70	9/70
b. Estimated quantity of substance remaining (gal.)	0	0	0	0	0
c. Mark box <input type="checkbox"/> if tank was filled with inert material (e.g., sand, concrete)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. 26	Tank No. 27	Tank No.	Tank No.	Tank No.
Status of Tank (Mark all that apply <input type="checkbox"/>)					
Currently in Use	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporarily Out of Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permanently Out of Use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brought into Use after 5/8/86	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Estimated Age (Years)	30	30			
Estimated Total Capacity (Gallons)	500	500			
Material of Construction (Mark one <input type="checkbox"/>)					
Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
Internal Protection (Mark all that apply <input type="checkbox"/>)					
Cathodic Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interior Lining (e.g., epoxy resins)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
External Protection (Mark all that apply <input type="checkbox"/>)					
Cathodic Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Painted (e.g., asphaltic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic Coated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
Piping (Mark all that apply <input type="checkbox"/>)					
Bare Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cathodically Protected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply <input type="checkbox"/>)					
a. Empty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Petroleum					
Diesel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kerosene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gasoline (including alcohol blends)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Used Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
c. Hazardous Substance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Please indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No.					
Mark box <input type="checkbox"/> if tank stores a mixture of substances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional Information (for tanks permanently taken out of service)					
a. Estimated date last used (mo/yr)	7 / 75	/	/	/	/
b. Estimated quantity of substance remaining (gal.)	0				
c. Mark box <input type="checkbox"/> if tank was filled with inert material (e.g., sand, concrete)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>